## **Abstract**

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## METHOD AND APPARATUS FOR TRANSMITTING INFORMATION IN VARIOUS CARRIER FREQUENCIES

The present invention is directed to a method and to an apparatus for the transmission of information in various carrier frequencies with a frequency hopping method, whereby a random sequence [...] a plurality of N possible carrier frequency values fx in addresses 1 through N of a table 25 is offered. The N possible carrier frequency values are thereby arranged in n sub-groups. At least a part M of the N carrier frequency values fx is periodically repeatedly read from the table 25, whereby the carrier frequency values within each sub-group are sequentially read out from the corresponding addresses and the sub-groups are read out in a specific sequence. M ≤ N thereby applies. Information are subsequently transmitted in carrier frequencies that correspond to the carrier frequency values that have been read out. The method and the apparatus of the present invention can be implemented, for example, in a mobile station and/or a base station of a mobile radiotelephone system.

Figure 3